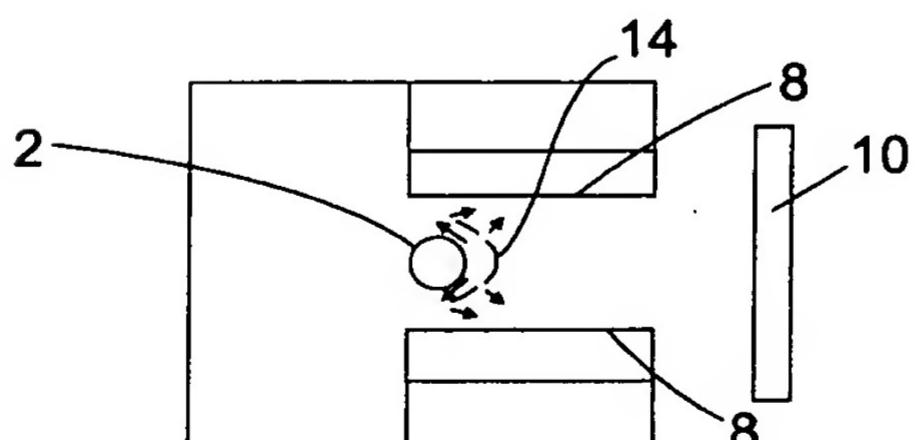


(c) Non-laminar gas flow (for small gap cathodes)



(d) Non-laminar gas flow (for large gap cathodes)

Figure 1

Application Serial No. 10/635,344
Reply to Office Action of April 18, 2005
Replacement Sheet

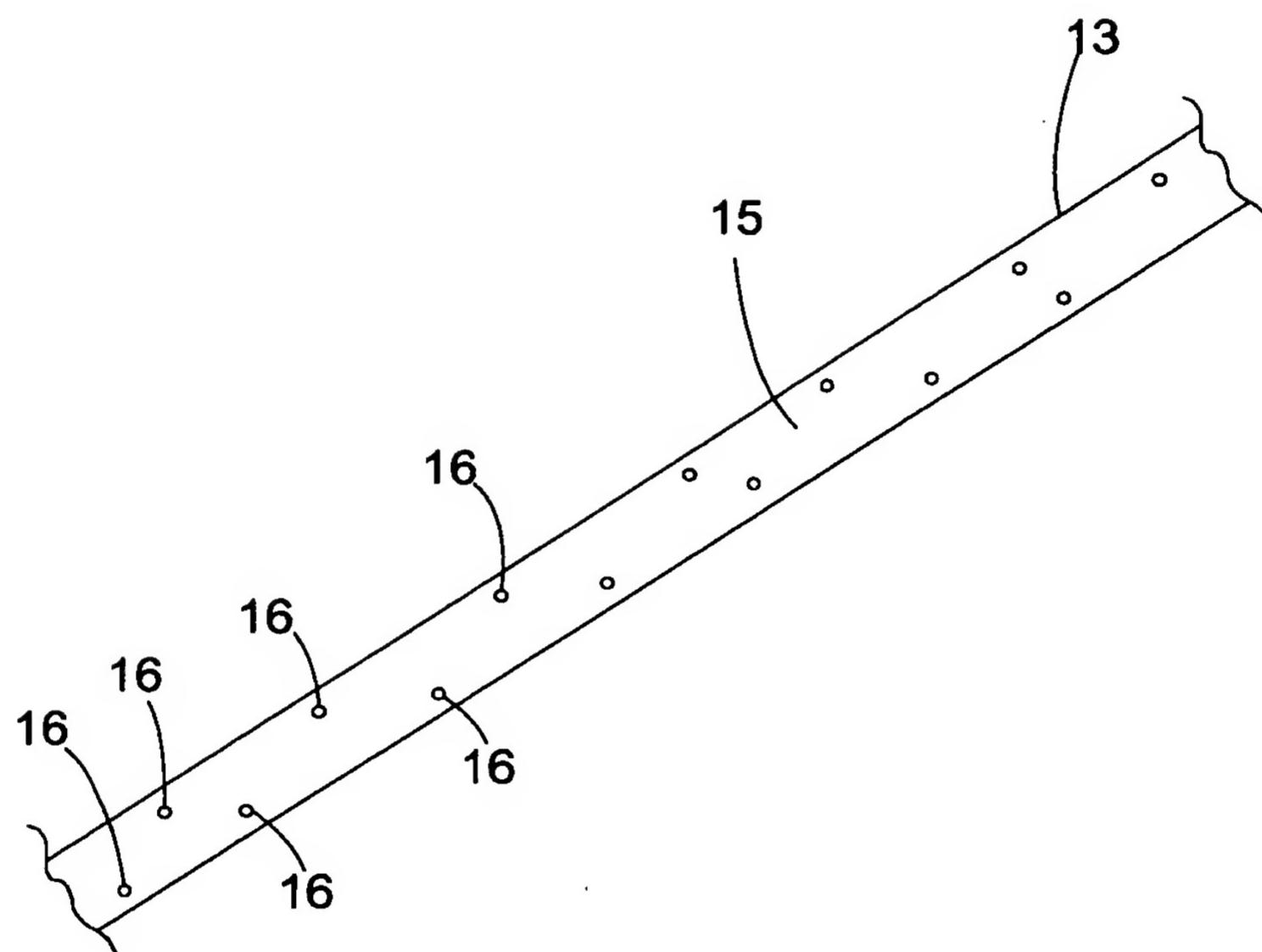


Figure 2

Application Serial No. 10/635,344
Reply to Office Action of April 18, 2005
Replacement Sheet

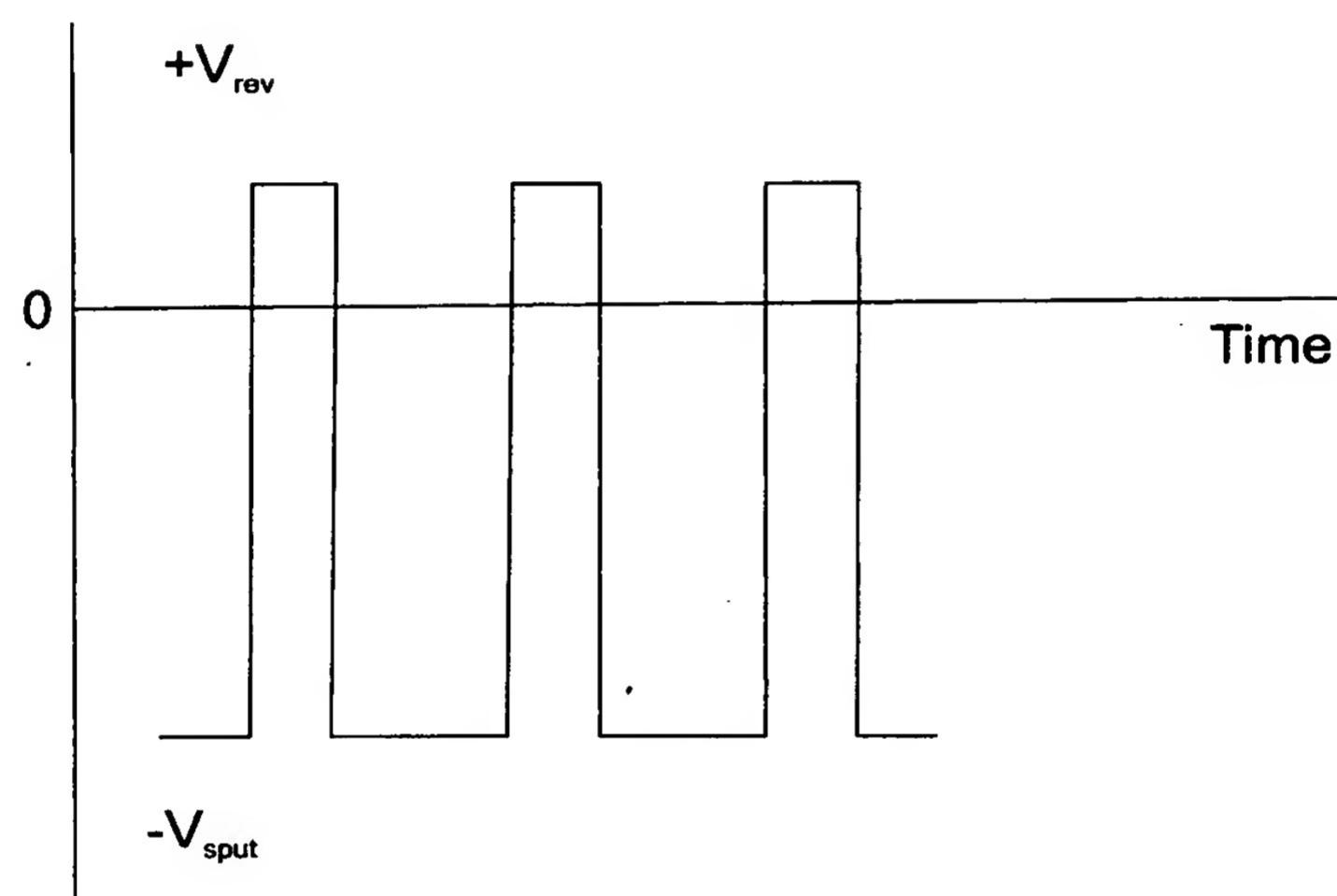


Figure 3

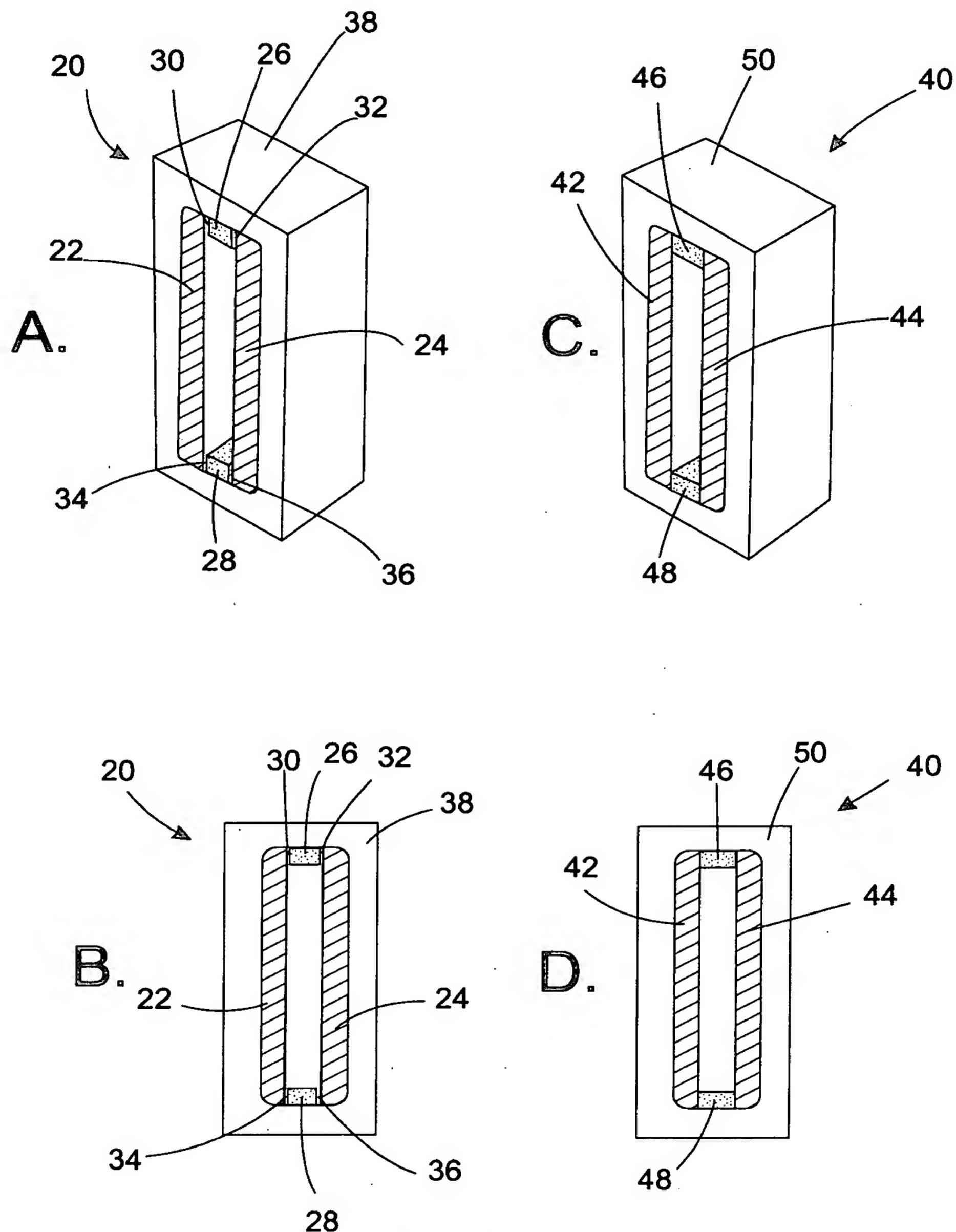


Figure 4

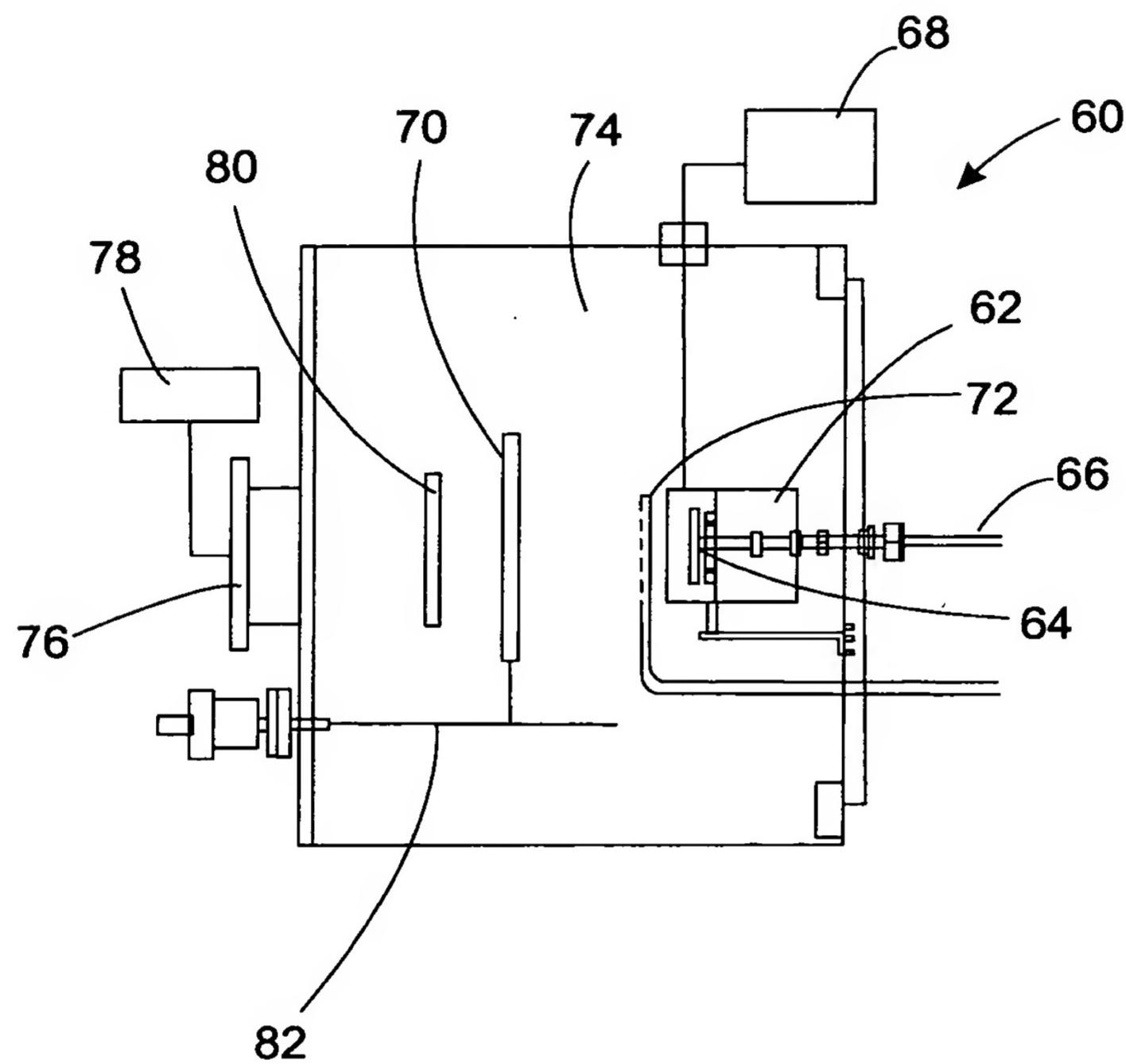


Figure 5A

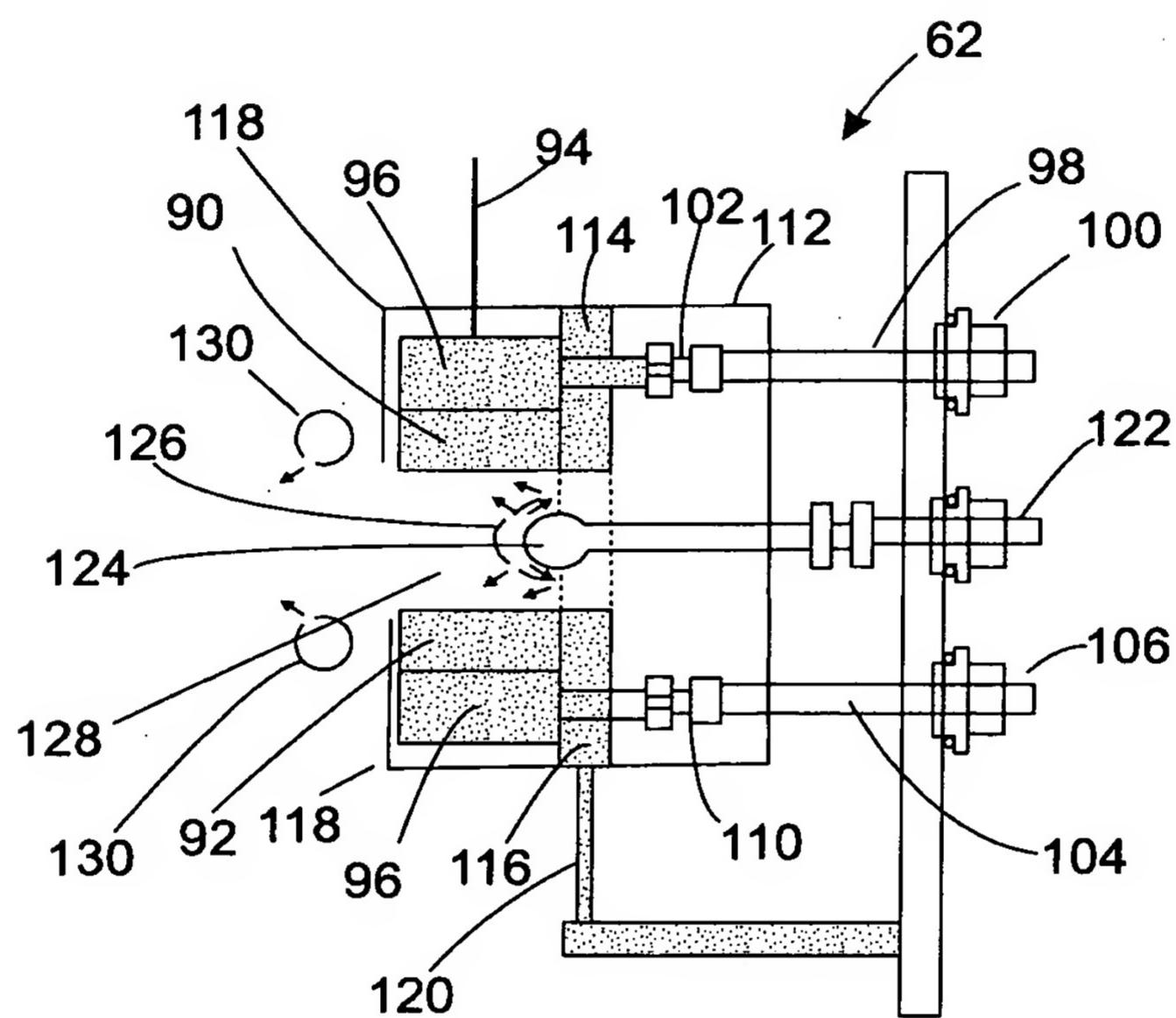


Figure 5B

Comparison of deposition rate for O_2 injected outside the hollow cathode and for O_2 passing through the hollow cathode (Ar 4slm, 300W, 250mTorr)

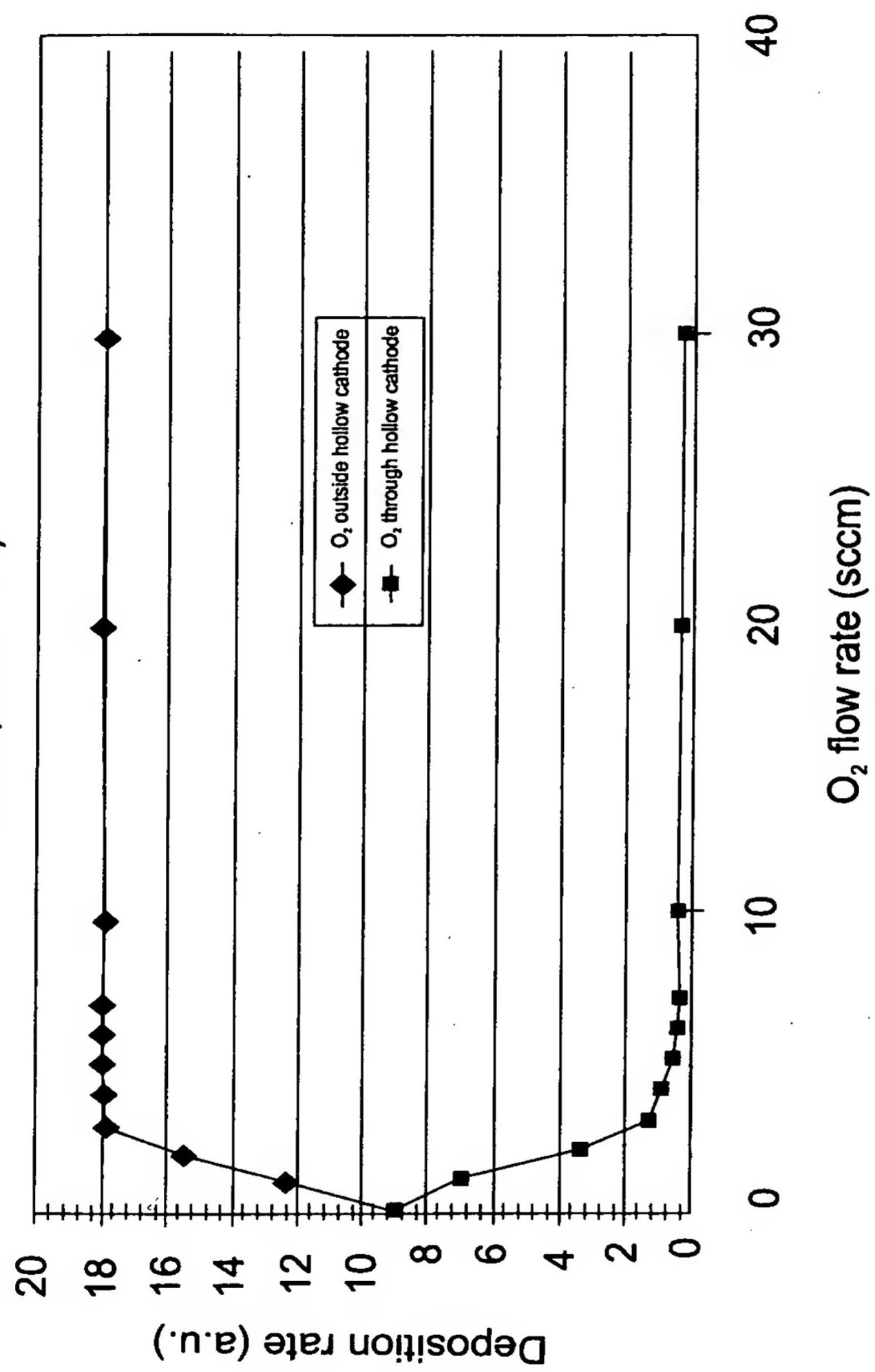


Figure 6

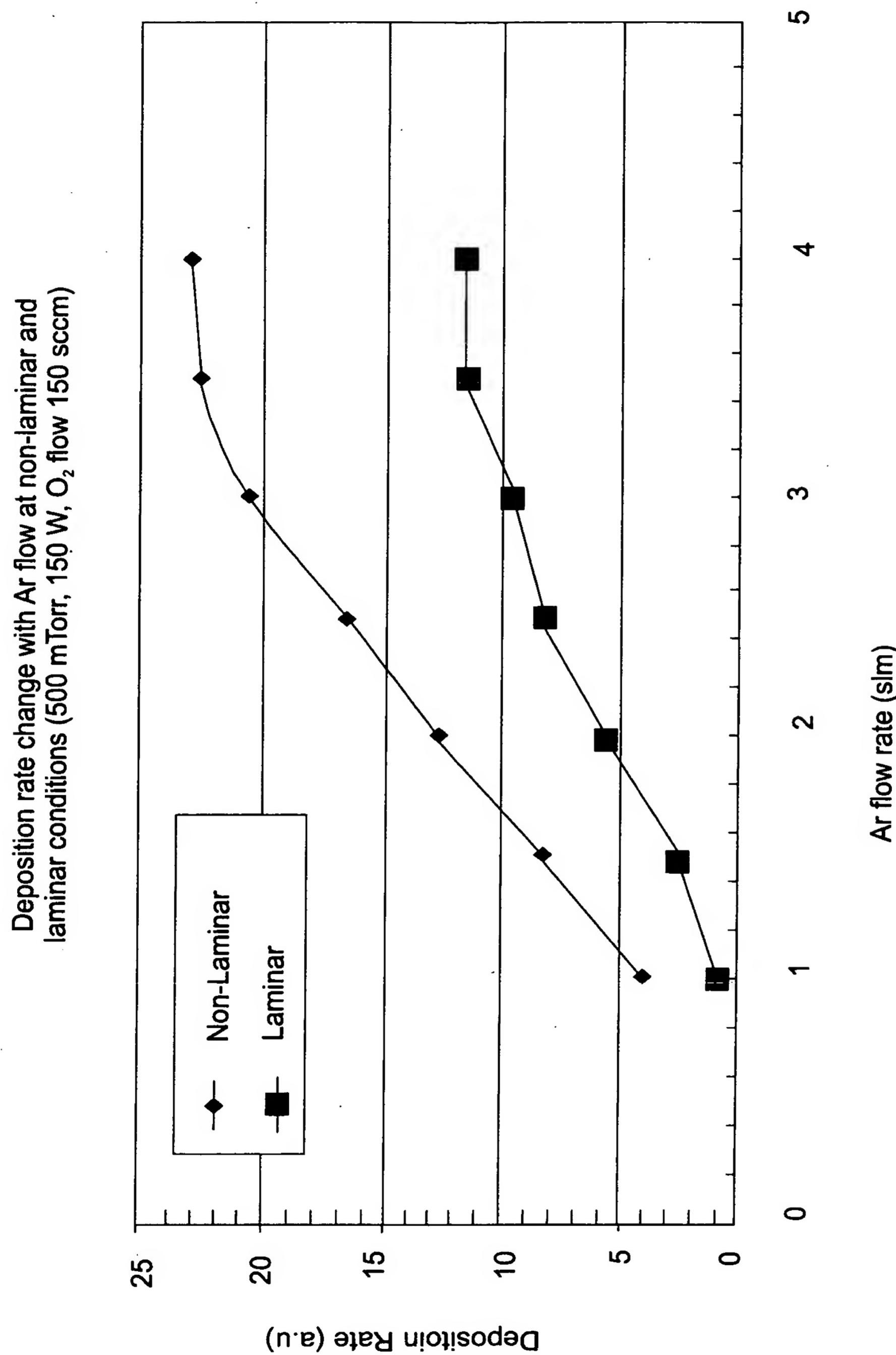


Figure 7

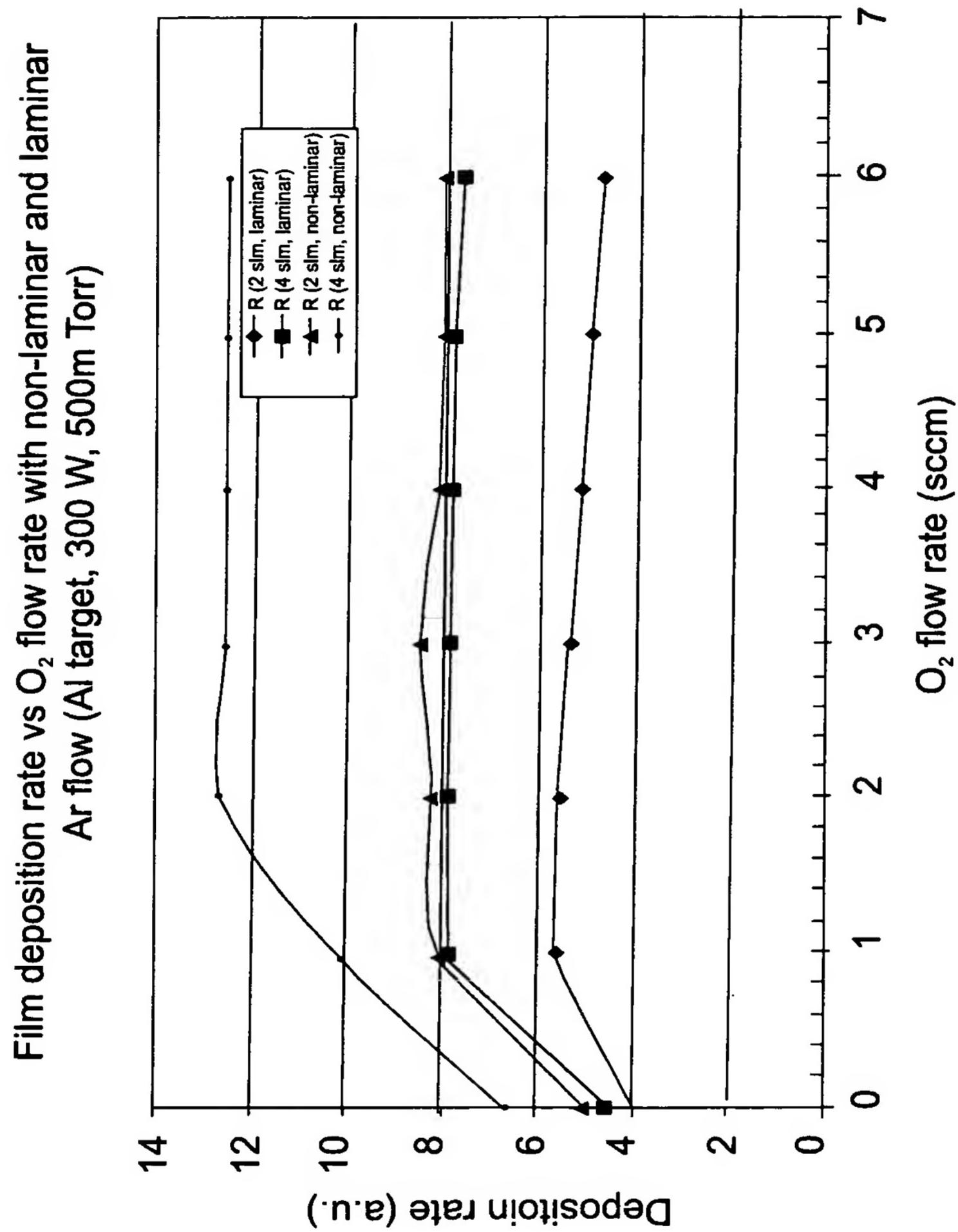


Figure 8